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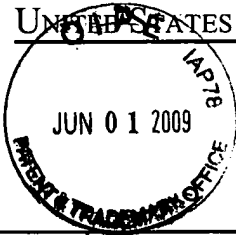
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/563,602

02/01/2006

Reese Randolph Smith III

1904

7590
Reese Randolph Smith, III
17 Wright Court
Succasunna, NJ 07876

05/19/2009

EXAMINER

WILLIAMS, MARK A

ART UNIT

PAPER NUMBER

3673

MAIL DATE

DELIVERY MODE

05/19/2009

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/563,602

Applicant(s)

SMITH III, REESE RANDOLPH

Examiner

MARK A. WILLIAMS

Art Unit

3673

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 17 February 2009.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-10 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-10 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- ☐ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____.
- ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- ☐ Notice of Informal Patent Application
- ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 1-10 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 1, line 7, “out of retaining engagement,” is indefinite. It is unclear exactly what element the hook member is out of engagement with.

In claim 6, “so as to urge the portion... into engagement with the hook member”, it is unclear how and by what structure this is achieved, and what functional result is produced, in the context of the claim language.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an

international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

4. Claims 1-7 and 10 are rejected under 35 U.S.C. 102(e) as being anticipated by Collet et al., US Patent 6,811,118 or US2003/0164421. A locking mechanism for engaging and retaining a movable member 50, characterized in that the mechanism includes a hook member 12 mounted for angular displacement about a first axis such that the hook member is movable into and out of retaining engagement with the movable member, a latch member 14 mounted for angular displacement about a second axis parallel with the first axis, the latch member having a portion thereof spaced from the second axis, which can be located to prevent movement of the hook member out of retaining engagement, and first and

second actuators (100 and 200) operable to rotate the latch member about the second axis such that the portion is movable to a position where it does not prevent movement of the hook member out of retaining engagement, and that the second actuator is a rotary actuator and includes what is broadly considered a cam 16 arranged for rotation about a third axis parallel to the second axis and located to engage a part of the latch member. The part engageable by the cam is the portion spaced from the second axis. The first actuator includes inherently includes a solenoid at 103. The second actuator includes an electric motor 201. The mechanism includes a spring 20 connected to the hook member to urge it out of retaining engagement with the movable member. As best understood, the spring is connected between the hook member and the latch member so as to urge the portion of the latch member into engagement with the hook member. The hook member has a hook formation on one side of the first axis and that it is engaged by the portion of the latch member on an opposite side of the first axis. The movable member is a capture pin of aircraft landing gear.

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 8 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Collet et al., 6,811,118 or US2003/0164421.

Regarding claim 8, Collet provides a roller 26 on the second actuating element and a cam 28 on the portion of the latch member, as oppose to a roller on the portion of the latch member. It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the device in this way, since it has been held that a mere reversal of the essential working parts of a device involves only routine skill in the art. *In re Einstein*, 8 USPQ 167. Such a modification is considered an art recognized equivalent structural modification, and would have functioned at least equally as well.

Regarding claim 9, although not explicitly disclosed in Collet, the examiner serves Official Notice that it is old and well known to utilize sensor means for detection of the position of latch/lock components. It would have been obvious to modify the device in this way for the purpose of providing means of detection the positioning of latch/lock components, as known in the art.

Response to Arguments

7. Applicant's arguments with respect to the claims of record have been considered but are moot in view of the new ground(s) of rejection. The 102(b) rejection has been withdrawn and replaced with a 102(e) rejection over the same art and associated Application Publication document.

Conclusion

This action is non-final.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MARK A. WILLIAMS whose telephone number is (571)272-7064. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter M. Cuomo can be reached on 571-272-6856. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Mark A. Williams/
Examiner, Art Unit 3673

/Peter M. Cuomo/

Supervisory Patent Examiner, Art Unit 3673